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10/656,062	09/05/2003	Kimihiko Kazui	FULO 20.622	8536
26304 7590 04/30/2007 KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE NEW YORK, NY 10022-2585			EXAMINER VUU, HENRY	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/656,062	Applicant(s) KAZUI ET AL.	
	Examiner Henry Vuu	Art Unit 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some    \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

Applicant's arguments with respect to claims 1 - 18 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Claim Objections***

Claim 1 is objected to because of the following informalities: Claim 1 recites the phrase "thereof/comment", wherein the phrase is an alternative expression. Subsequent claims of the amendment also include the alternative expression previously mentioned. Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11, 12, 14, 15, 17, and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by DeWeese et al. (Publication No. 2005/0262542).

As to claim 11, DeWeese et al. teaches:

A client (see e.g., Fig. 2A), comprising: a communication unit (see e.g., para. [0059]; i.e., DOCSIS modem) transmitting/receiving data to/from a sever (see e.g., para. [0061]; i.e., client

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server architecture, wherein the set-top box sends data request to the server and the server sends the results back to the set-top box for processing, display, or storage) or each client through a network (see e.g., para. [0051]; i.e., communication link 18); and a multimedia electronic tag editing unit (see e.g., para. [0119]; i.e., set-top box) displaying a comment (see e.g., Fig. 16 and para. [0119]) with attribute data (see e.g., Fig. 16 and para. [0119]; i.e., attribute data, such as a users name, is displayed next to each comment in quadrant 316 and 317) attached to each scene of multimedia data (see e.g., Fig. 16 and para. [0119]; i.e., “Monica Lewinsky’s Testimony” and “Bill Clinton’s Impeachment) corresponding to a multimedia electronic tag (see e.g., Fig. 16 and para. [0119]), using the multimedia electronic tag obtained from a server or another client (see e.g., para. [0098]; i.e., real-time communication and TV programs are stored on chat server located in television distribution facility, wherein communication paths can route the data to user television equipments), and simultaneously enabling a comment to be inputted to an arbitrary scene (see e.g., Fig. 16 para. [0093] and para. [0094]; i.e., television program 202 and chat room region 206 are displayed simultaneously for comment input, wherein a comment is inputted by pressing the Send button or other suitable buttons. Furthermore, the user is able to toggle between the chat group of “Monica Lewinsky’s Testimony” and “Bill Clinton’s Impeachment”) or a comment and updating the content of the multimedia electronic tag, based on the input (see e.g., Fig. 16 and para. [0094]; i.e., comments are inputted by using the Send button and other suitable buttons, wherein the actuation of the button will update the chat groups), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages).

As to claim 12, DeWeese et al. teaches:

The client according to claim 11, further comprising: a format conversion unit converting a format of the multimedia electronic tag into a format for synchronizing/reproducing the multimedia data and comment thereof (see e.g., para. [0064]; i.e., the set-top box may be configured to play back the chat session in a format selected by the user); and a multimedia synchronous reproduction unit (see e.g., para. [0093]; i.e., set-top box) synchronizing and displaying multimedia data and comments corresponding to each scene of the multimedia data (see e.g., Fig. 16 para. [0093] and para. [0094]; i.e., chat room 206 is simultaneously displayed with television program 202, wherein comments can be simultaneously inputted while watching the television program).

As to claim 14, DeWeese et al. teaches:

A computer-readable storage medium (see e.g., para. [0059]; i.e., memory 25) that records a program (see e.g., para. [0059]; i.e., program listing data) enabling a computer (see e.g., Fig. 1; i.e., television equipment 20) to execute a process (see e.g., para. [0058]; i.e., user television equipment 20 act as a client processor), the process comprising: displaying a comment (see e.g., Fig. 16 and para. [0119]; i.e., quadrant 316 and 317) with a variety of attributes (see e.g., Fig. 16; i.e., name of user inputting comment in quadrant 316 and 317) of a writer user attached to each scene of multimedia data (see e.g., Fig. 16 and para. [0119]; i.e., “Monica Lewinsky’s Testimony” and “Bill Clinton’s Impeachment) corresponding to a multimedia electronic tag (see e.g., Fig. 15 – 16 and para. [0117]; i.e., generating of a multimedia electronic tag is accomplished by pressing options 302, 304, 306, and 308 to display television display screen 295), using the multimedia electronic tag obtained from a server or another client (see e.g., para. [0061]; i.e.,

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client server architecture, wherein the set-top box sends data request to the server and the server sends the results back to the set-top box for processing, display, or storage), and simultaneously enabling a comment to be inputted to an arbitrary scene (see e.g., Fig. 16 para. [0093] and para. [0094]; i.e., television program 202 and chat room region 206 are displayed simultaneously for comment input, wherein a comment is inputted by pressing the Send button or other suitable buttons. Furthermore, the user is able to toggle between the chat group of “Monica Lewinsky’s Testimony” and “Bill Clinton’s Impeachment”) or a comment (see e.g., Fig. 16; i.e., quadrant 316 and 317) and updating a content of the multimedia electronic tag, based on the input (see e.g., Fig. 16 and para. [0094]; i.e., comments are inputted by using the Send button and other suitable buttons, wherein the actuation of the button will update the chat groups), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages).

As to claim 15, DeWeese et al. teaches:

A computer-readable storage medium (see e.g., para. [0059]; i.e., memory 25) that records a program (see e.g., para. [0059]; i.e., program listing data) enabling a computer (see e.g., Fig. 1; i.e., television equipment 20) to execute a process (see e.g., para. [0058]; i.e., user television equipment 20 act as a client processor), the process comprising: converting the format of a multimedia electronic tag (see e.g., para. [0064]; i.e., the set-top box may be configured to play back the chat session in a format selected by the user) obtained from a server or another client or a multimedia electronic tag (see e.g., para. [0060] and para. [0061]; i.e., client server architecture, wherein the set-top box sends data request to the server and the server sends the

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results back to the set-top box for processing, display, or storage) after update into a format for synchronizing/reproducing multimedia data corresponding to the multimedia electronic tag (see e.g., Fig. 16 para. [0093] and para. [0094]; i.e., chat room 206 is simultaneously displayed with television program 202, wherein comments can be simultaneously inputted while watching the television program) and a comment on each scene of the multimedia data described in the multimedia electronic tag (see e.g., Fig. 16; i.e., the name of each user is displayed with the associated comment within display screen 295), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages).

As to claim 17:

Claim 17 contains substantially similar subject matter as previously discussed with respect to claim 14 above. Thus, claim 17 is rejected along the same rationale.

As to claim 18:

Claim 18 contains substantially similar subject matter as previously discussed with respect to claim 15 above. Thus, claim 18 is rejected along the same rationale.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 – 5, 7 – 9, 13, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeWeese et al. (Publication No. 2005/0262542) in view of Feig et al. (Publication No. 2002/0085713).

As to claim 1, DeWeese et al. teaches a multimedia cooperative work system (see e.g., Fig. 1A; chat system 10), comprising: generating a model of a multimedia electronic tag (see e.g., Fig. 15 – 16 and para. [0117]; i.e., generating of a multimedia electronic tag is accomplished by pressing options 302, 304, 306, and 308 to display television display screen 295) in which display of a comment and attribute data (see e.g., Fig. 16 and para. [0119]; i.e., textual real-time communication and the screen name, such as “Connie”, “Robin”, “Bill” and “Bob” are comments and attribute data displayed on television display screen 295) thereof/comment input in tree-shape structure structure (see e.g., Fig. 16; i.e., each comment by a user is appended to the previous comment, wherein the indentation of each comment resembles a tree hierarchy to identify the owner of the comment. Furthermore, the comments are appended to comments in term of time, therefore resembling a hierarchy of comments) is possible for each scene (see e.g., para. [0119] and para. [0120], lines 17 – 25; i.e., “Clinton’s Impeachment” and “Lewinsky’s Testimony” are a plurality of scenes during a news program) of multimedia data (see e.g., para. [0119]; i.e., television program), a registration of which is requested by an arbitrary client in a server (see e.g., para. [0060] and para. [0062]; i.e., client-server arrangement and invoking a chat application) and obtaining the multimedia data in terms of time (see e.g., para. [0100] and para. [0120]; i.e., chat sessions and TV programs are concurrently recorded in regards to time zones, wherein a user at a different time zone is later allowed to retrieve the chat session while viewing the broadcast TV program in his/her time zone. Furthermore, a chat group occurs concurrently



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during the duration of the news program, and can continue beyond the end of the news program or talk show); and exchanging comments on each scene among a plurality of clients (see e.g., Fig. 16; comments are made in quadrant 316 and 317), including the requesting client (see e.g., para. [0119]; i.e., allowing the user to participate in a plurality of chat groups concurrently), using the multimedia electronic tag (see e.g., set-top box application displayed on television display screen 295), thereby realizing multimedia cooperative work (see e.g., para. [0119]; i.e., participating concurrently in a plurality of chat groups of a news program topic), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages). DeWeese et al. does not specifically mention dividing the multimedia data in terms of time. Feig et al. teaches dividing the multimedia data in terms of time (see e.g., para. [0017]; i.e., the multimedia file 102 is divided into sequential data blocks in terms of minutes). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the cooperative work system of DeWeese et al. with dividing multimedia data in terms of time of Feig et al. because the delivery of encoded sequential data blocks of multimedia data are sent to the client and further decrypted by using cryptographic token keys obtained from the server, which therefore allows the server to control the playback of the multimedia file (see e.g., para. [0010] and para. [0011]).

As to claim 2, DeWeese et al. teaches the multimedia cooperative work system according to claim 1, wherein each said client further comprises an electronic tag editing unit (see e.g., Fig. 1A and para. [0060]; i.e., set-top box 26 contains a processor for implementing interactive

television guide applications and chat features) displaying a comment display/input screen (see e.g., Fig. 16), using a multimedia electronic tag obtained from the server or another client (see e.g., para. [0058]; i.e., chat equipment 22 and television equipment 20 are structured in a client-server arrangement for supporting real-time communication).

As to claim 3, DeWeese et al. teaches the multimedia cooperative work system according to claim 1, wherein each said client further comprises a format conversion unit converting a format of the multimedia electronic tag (see e.g., para. [0064], lines 10 – 12; i.e., chat sessions can be played back in a format selected by a user) into a format in which the multimedia data and a comment aggregate of each scene of the multimedia data can be synchronized/reproduced (see e.g., para. [0064] and para. [0120]; i.e., the chat session is played back as an overlay on top of the program, or the chat session may be displayed concurrently on the TV screen).

As to claim 4, DeWeese et al. teaches the multimedia cooperative work system according to claim 1, wherein the attribute data include at least one of a comment writer name (see e.g., Fig. 16; i.e., comment writer's name, such as "Connie", "Robin", "Bill" and "Bob"), a comment generation date and a comment adding destination.

As to claim 5, DeWeese et al. teaches the multimedia cooperative work system according to claim 2, wherein a publication destination of the comment can be selected (see e.g., Fig. 16 and para. [0119]; i.e., the user can participate in a plurality of chat groups concurrently, such as chat groups displayed in quadrant 316 and 317) and designated in the comment display/input screen (see e.g., Fig. 16 and para. [0119]; i.e., the comment of the user is displayed in chat group 316 or 317, depending on the users current desire in discussion topic), the multimedia electronic tag is updated by adding description on the publication destination (see e.g., Fig. 16; i.e., group

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chat 316 and 317 are updated with user comments), the multimedia electronic tag after the update is stored in the server (see e.g., para. [0064]; i.e., recording of the text, audio, video, or a combination therefor can be stored on a remote server), the server further comprises an electronic tag communication unit transmitting a multimedia electronic tag without comment (see e.g., Fig. 13; i.e., a program 271 is displayed without any comments by a user), the publication destinations of which are designated (see e.g., para. [0132] and para. [0133]; i.e., region 383 and region 390 are regions for designating who is blocked from chat request and who are allowed for group chats, in which request for chat is sent), to the requesting client if the client requesting the transmission of the multimedia electronic tag is not included in the publication destinations (see e.g., para. [0133]).

As to claim 7, DeWeese et al. teaches, a multimedia cooperative work system (see e.g., Fig. 1) exchanging a comment (see e.g., Fig. 16 and para. [0119]; i.e., group chat quadrant 316 and 317) on arbitrary multimedia data (see e.g., Fig. 16 and para. [0119]; i.e., “New Program”, “Lewinsky’s Testimony”, and “Clinton’s Impeachment”) among a plurality of clients (see e.g., Fig. 2B) through a server (see e.g., Fig. 2B; i.e., server 91), wherein the server (see e.g., Fig. 2B; i.e., server 91), comprising: a multimedia communication unit (see e.g., para. [0053]; i.e., main facility 12) assigning an identifier to multimedia data (see e.g., para. [0053] and para. [0055]; i.e., main facility 12 and television distribution facility assigns identifiers to multimedia data to television equipment 20 via the communication path 24, wherein program times, channels, titles, descriptions, etc. are defined as multimedia identifiers) requested by an arbitrary client (see e.g., para. [0057], lines 1 – 4; i.e., real-time communication of chat request between the user television equipment devices) and returning the identifier to the requesting client (see e.g., para.

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[0057] and para. [0058]; i.e., the facility establishes a forum for real-time communication called television chat groups using chat equipment 22 such as a chat server); a multimedia storage unit storing the multimedia data (see e.g., para. [0051]; i.e., database 14 holds program guide information, wherein the multimedia data within database 14 contains program guide listing for user requests); a management unit (see e.g., para. [0130] and para. [0131]; i.e., set-top box controls and manages the reception of request for joining a chat session, such as allowing and blocking of messages for joining a chat session) obtaining electronic mail (see e.g., para. [0086]; i.e., chat system allows a user to search for chat buddies by means of e-mail), by which the registration requesting client notifies other clients of the identifier of the multimedia data (see e.g., para. [0088], para. [0127] and para. [0137]; i.e., a user may send a chat request to other users when watching a related television program, such as the sitcom Seinfeld. Further, the user can send chat request of a related program by choosing particular people from an address book) obtaining member data from a destination address of the electronic mail (see e.g., para. [0137]; i.e., the member data for sending a request to join a chat of a particular program is obtained from the address book, wherein the request is sent to the server and the server further identifies who to send the request to) and storing/managing the member data in relation to the identifier of the multimedia data (see e.g., para. [0136] and para. [0138]; i.e., the address book is stores user names and address of users that are usual participants of the weekly sitcom, therefore, only sending a chat request to only these users); an electronic tag model generation unit (see e.g., para. [0060]; i.e., set-top box 26 contains a processor for generating and displaying television programs on the display) generating a model of a multimedia electronic tag (see e.g., Fig. 16 and para. [0060]; i.e., set-top box 26 contains a processor, wherein the processor is used to

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implement interactive television program guide applications, such as the one depicted in Fig. 16) in which a comment can be inputted to each scene (see e.g., Fig. 16; i.e., each scene of “News Program”, such as “Monica Lewinsky’s Testimony” and “Bill Clintons Impeachment” has a corresponding chat group used for discussing the topic) and obtaining the multimedia data in terms of time (see e.g., para. [0100] and para. [0120]; i.e., chat sessions and TV programs are concurrently recorded in regards to time zones, wherein a user at a different time zone is later allowed to retrieve the chat session while viewing the broadcast TV program in his/her time zone. Furthermore, a chat group occurs concurrently during the duration of the news program, and can continue beyond the end of the news program or talk show), in tree-shape structure (see e.g., Fig. 16; i.e., each comment by a user is appended to the previous comment, wherein the indentation of each comment resembles a tree hierarchy to identify the owner of the comment), based on the multimedia data and data stored/managed by the management unit (see e.g., para. [0061]; i.e., the server stores multimedia data, wherein the request by set-top box 26 will result in the server sending the data back to set-top box 26 for processing), assigning an identifier to the multimedia electronic tag (see e.g., para. [0064] and para. [0066]; i.e., the recorded TV program with associated chat session is stored on a DVD device, wherein the program guide displays program listings on television 30. The program listings of the program guide corresponds to assigning identifiers to a TV program and associated chat session for future playback) and enabling the management unit to store/manage the identifier in relation to the multimedia data identifier (see e.g., para. [0064] and para. [0066]); and an electronic tag storage unit (see e.g., para. [0064]; i.e., DVD device) storing the electronic tag model (see e.g., para. [0064] – para. [0066]; i.e., program listings are a model of the recorded TV program and chat session) and also

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storing the multimedia electronic tag if an arbitrary comment is added based on the electronic tag model (see e.g., para. [0064] – para. [0066]; i.e., TV programs and chat sessions, wherein comments are added in a chat session, are stored on VCR 28 or a DVD device for future playback), and a client of each member (see e.g., Fig. 2B; i.e., plurality of user television equipment 97), including the registration requester (see e.g., Fig. 2B; i.e., one of the plurality of television requester 97 corresponds to a registration requester), comprising: an electronic tag communication unit (see e.g., para. [0059]; i.e., DOCSIS modem is used in two-way communication for sending and receiving data for program guides) obtaining a multimedia electronic tag (see e.g., Fig. 16 and para. [0060]; i.e., program guide information is distributed to set-top box 26 by a DOCSIS modem) from the server (see e.g., para. [0059]; i.e., two-way communication to and from the server) using the multimedia data identifier (see e.g., para. [0060] and para. [0061]; i.e., client of set-top box 26 sends a request by selecting an identifier from the program guide, wherein the server returns the data to set-top box 26 for processing, displaying, and storage); an electronic tag editing unit (see e.g., para. [0060] and para. [0066]; i.e., television equipment 20 includes set-top box 26 and a processor to handle processing and displaying of real-time communication and chat request on television 30) generating and displaying a comment editing screen (see e.g., Fig. 16 and para. [0119]; i.e., television display screen displays editing screen, such as quadrant 316 and 317) by which a comment on an arbitrary scene of the multimedia data (see e.g., Fig. 16 para. [0119] and para. [0150]; i.e., the user may view the television program and the chat session simultaneously, while commenting of the scene) or a comment on a comment can be inputted using the multimedia electronic tag (see e.g., Fig. 16 para. [0150]); a format conversion unit (see e.g., para. [0114]; i.e., the set-top box

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contains a format conversion unit for decoding) converting a format of the multimedia electronic tag into a multimedia synchronous reproduction format (see e.g., Fig. 16 and para. [0150]; i.e., the chat group and the television program are simultaneously reproduced); and a synchronous reproduction unit (see e.g., para. [0150]) synchronizing/reproducing the multimedia data and comment using the conversion result of the format conversion unit (see e.g., para. [0150]; i.e., the set-top box allows simultaneous synchronization of chat sessions and television programs), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages). DeWeese et al. does not specifically mention dividing the multimedia data in terms of time. Feig et al. teaches dividing the multimedia data in terms of time (see e.g., para. [0017]; i.e., the multimedia file 102 is divided into sequential data blocks in terms of minutes). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the cooperative work system of DeWeese et al. with dividing multimedia data in terms of time of Feig et al. because the delivery of encoded sequential data blocks of multimedia data are sent to the client and further decrypted by using cryptographic token keys obtained from the server, which therefore allows the server to control the playback of the multimedia file (see e.g., para. [0010] and para. [0011]).

As to claim 8, DeWeese et al. teaches a server (see e.g., Fig. 2B; i.e., server 91), comprising: a communication unit (see e.g., para. [0051] and para. [0057]; i.e., chat server 22 resides in facility 16, wherein it is appreciated by one of ordinary skill in the art that the communication of information from database 14 to facility 16, such as link 18, a communication

unit is present for the two-way communication) transmitting/receiving data to/from each client through a network (see e.g., Fig. 1 and para. [0059]; DOCSIS modem is sued for two-way communication to and from the server by using communications path 24, communications path 82, communications path 101, etc.); and a multimedia electronic tag model generation unit (see e.g., para. [0055] and para. [0061]; i.e., television distribution facility 16 distributes program guide data and other information to the user television equipment 20, wherein the set-top box sends a request to the server and receives television programs and chat session from the server) generating a model of a multimedia electronic tag in which display of a comment and attribute data (see e.g., Fig. 16 and para. [0071]; i.e., chat server 90 in television distribution facility 16 generates the television program and chat session to send to user set-top box) thereof/comment input in tree-shape structure (see e.g., Fig. 16; i.e., each comment by a user is appended to the previous comment, wherein the indentation of each comment resembles a tree hierarchy to identify the owner of the comment. Furthermore, the comments are appended to comments in term of time, therefore resembling a hierarchy of comments) is possible for each scene (see e.g., para. [0119] and para. [0120], lines 17 – 25; i.e., “Clinton’s Impeachment” and “Lewinsky’s Testimony” are a plurality of scenes during a news program) obtaining multimedia data (see e.g., para. [0100] and para. [0120]; i.e., chat sessions and TV programs are concurrently recorded in regards to time zones, wherein a user at a different time zone is later allowed to retrieve the chat session while viewing the broadcast TV program in his/her time zone. Furthermore, a chat group occurs concurrently during the duration of the news program, and can continue beyond the end of the news program or talk show) requested by an arbitrary client in a server (see e.g., para. [0061]; i.e., two-way communication, wherein the server can store data and send the results of



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the request back to the set-top box for further processing, display, or storage), wherein said multimedia electronic tag includes text data (see e.g., Fig. 16), and said multimedia electronic tag is added with the multimedia data which includes audio data and video data (see e.g., para. [0119], lines 13 – 20; video image and audio messages). DeWeese et al. does not specifically mention dividing the multimedia data in terms of time. Feig et al. teaches dividing the multimedia data in terms of time (see e.g., para. [0017]; i.e., the multimedia file 102 is divided into sequential data blocks in terms of minutes). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the cooperative work system of DeWeese et al. with dividing multimedia data in terms of time of Feig et al. because the delivery of encoded sequential data blocks of multimedia data are sent to the client and further decrypted by using cryptographic token keys obtained from the server, which therefore allows the server to control the playback of the multimedia file (see e.g., para. [0010] and para. [0011]).

As to claim 9, DeWeese et al. teaches the server according to claim 8, further comprising a member management unit obtaining member data (see e.g., para. [0075] – [0077]; i.e., the user profile screen 120 obtains member data of the user using the set-top box, wherein the profile 120 can be stored on a server), which are data on a user engaging in the multimedia data cooperative work (see e.g., Fig. 4 and para. [0075] – para. [0077]), from electronic mail by which the registration requesting client notifies other clients of the identifier of the multimedia data (see e.g., [0082]; i.e., display screen 160 is useful for sending out chat request to users who have similar interest in programs, channels, or categories of programs), and managing the member data in relation to the multimedia data and multimedia electronic tag (see e.g., Fig. 19 and para.

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[0130]; i.e., display screen 360 includes address book and a plurality of options to send chat request, wherein display 360 is used to manage member data in relations to common TV programs of interest), wherein said multimedia electronic tag model generation unit generates the multimedia electronic tag model using the data managed by the management unit (see e.g., para. [0130] and para. [0133]; i.e., upon selection of an option displayed on display screen 360, a chat session and TV program will be generated).

As to claim 13:

Claim 13 contains substantially similar subject matter as previously discussed with respect to claim 1 above. Thus, claim 13 is rejected along the same rationale.

As to claim 16, claim 16 differ from claim 1 only in that claim 16 is an apparatus claim using a program (see e.g., para. [0059]; i.e., program listing data) that is executed (see e.g., para. [0058]; i.e., user television equipment 20 act as a client processor) to perform the steps of claim 1. Thus, claim 16 is analyzed with respect to claim 1 as previously discussed above.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeWeese et al. (Publication No. 2005/0262542) in view of Feig et al. (Publication No. 2002/0085713) and further in view of Markel et al. (Publication No. 2002/0122060).

As to claim 6, this claim is analyzed with respect to claim 1 as previously discussed above. DeWeese et al. and Feig et al. do not specifically mention the multimedia electronic tag is described in XML. Markel et al. teaches the multimedia electronic tag is described in XML code (see e.g., para. [0009], para. [0010], para. [0017]; i.e., television based interfaces are in XML code and further converted into HTML script for displaying interfaces on a set-top box).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the multimedia cooperative work system and multimedia electronic tag of DeWeese et al. as modified by dividing multimedia data in terms of time of Feig et al. with the multimedia electronic tag being described in XML of Markel et al. because a wizard allows a non-technical user to enter content that can be displayed on various HTML interfaces (see e.g., para. [0010]).

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeWeese et al. (Publication No. 2005/0262542) in view of Feig et al. (Publication No. 2002/0085713) and further in view of Maurille et al. (Patent No. 6,484,196).

As to claim 10, DeWeese et al. does not specifically mention the server according to claim 8, wherein, a publication destination and expiration date of a comment are described as attribution data of the comment in the multimedia electronic tag, and further comprising a multimedia electronic tag modification/communication unit deleting an overdue comment from a multimedia electronic tag. Maurille et al. teaches a publication destination (see e.g., Fig. 4B; i.e., Recipient 256 corresponds to the recipient to which the post is to be sent) and expiration date of a comment are described as attribution data (see e.g., col. 12, lines, 31 – 46; i.e., messages are displayed until they expire and are automatically deleted) of the comment (see e.g., Fig. 4B; i.e., each post has attributes associated with the post), and further comprising a multimedia electronic tag modification/communication unit deleting an overdue comment from a multimedia electronic tag (see e.g., Fig. 1 and col. 8, line 43; i.e., ExpiryDate is a flag that resides in PMB Database on the server side and is further invoked to delete overdue messages from the multimedia electronic

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tag). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the cooperative work system of DeWeese et al. as modified by dividing multimedia data in terms of time of Feig et al. with a publication destination and expiration date of a comment are described as attribution data of the comment in the multimedia electronic tag, and further comprising a multimedia electronic tag modification/communication unit deleting an overdue comment from a multimedia electronic tag of Maurille et al. because the deletion of the overdue comment allows the display to be less cluttered and obscured.

### *Inquiries*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Vuu whose telephone number is (571) 270-1048. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Henry Vuu



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